

Flanged Linear Bushings

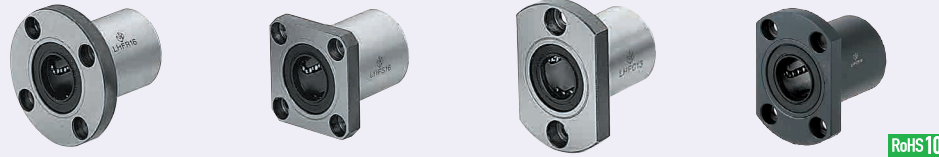
Single, Opposite Counterbored Hole

= For customers using industry standard products =

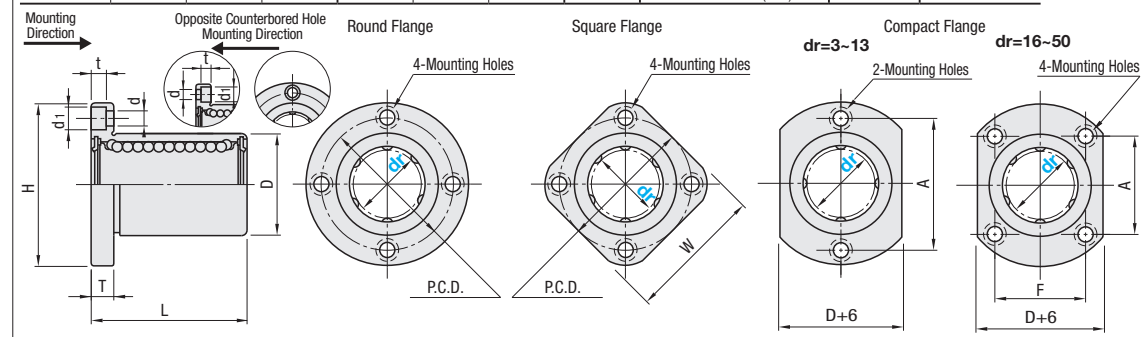
 The part enclosed in the red frame is as per industry standard specifications (Outer cylinder SUJ2 equivalent, Retainer resin). Consider these specifications while selecting the product.

■ **Features:** Easy to assemble with bolt-on flanges.

Industry Standard



Counterbored Holes	Type			Outer Cylinder			Balls	Retainer	Ambient	Accessory
	Round Flange	Square Flange	Compact Flange	M Material	H Hardness	S Surface Treatment	M Material	M Material	Operating Temp.	
Opposite Counterbored	LHZR	LHZS	LHZC	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~ 80°C	Seal M Material Nitrile Rubber (-20~120°C)
	LHFR-N No Seal	LHFS-N No Seal	LHFC-N No Seal					Stainless Steel (SUS)	-20~110°C	
LHFR	LHFS	LHFC	Stainless Steel (SUS)							
Standard	LHFRF	LHFSF						LHFCF	SUS440C Equivalent	
	LHFRR	LHFSR	LHFCR			Stainless Steel (SUS)	-20~110°C			
	LHFRM	LHFSM	LHFCM			Plastic (Duracon M90 Equivalent)	-20~ 80°C			
	LHFRMF	LHFSMF	LHFCMF			Stainless Steel (SUS)	-20~120°C			
	SLHFR	SLHFS	SLHFC			Plastic (Duracon M90 Equivalent)	-20~ 80°C			
	SLHFRS	SLHFS S	SLHFC S			Stainless Steel (SUS)	-20~120°C			

[illegible]

 For Precautions for Use, see  **P303**.  Select Height-adjusting Spacers for Flanged Bushings from  **P330**.
 No seal for dr=3 and 4, LHFR-N, LHFS-N and LHFC-N. Reversed counterbored type can be bolted from the reverse side.

$$\text{kgf} = \text{N} \times 0.101972$$
[illegible]

LHFC-N10 (No Seal)

 **LHFCR8** (Low Temperature Black Chrome Plating)
 LHFCR10L (L Type Greased)

⚠ For Features of Low Temperature Black Chrome Plating, see P304.
Alternative grease types available Alternative grease types available

For Days to Ship, Price and Performance, see **P.304**.

Flanged Linear Bushings

Double, Opposite Counterbored Hole

= For customers using industry standard products =

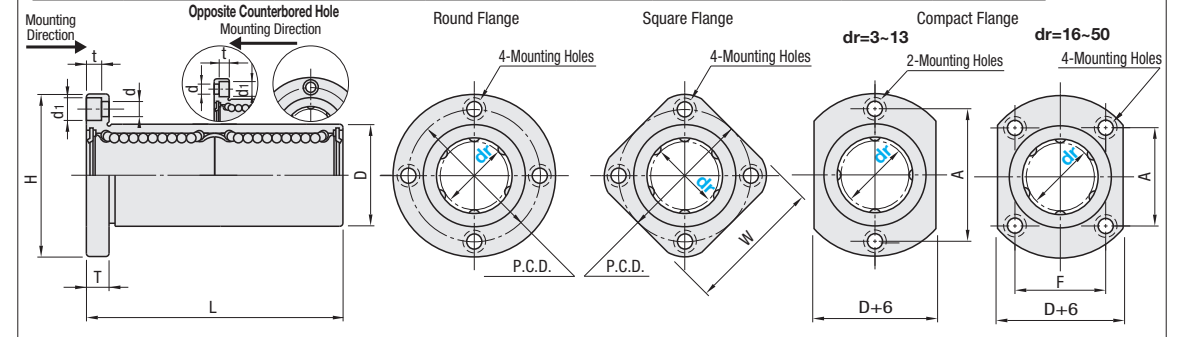
 The part enclosed in the red frame is as per industry standard specifications (Outer cylinder SUJ2 equivalent, Retainer resin). Consider these specifications while selecting the product.

■ **Features:** Easy to assemble with bolt-on flanges.

Industry Standard



Counterbored Holes	Type			Outer Cylinder			Balls	Retainer	Ambient	Accessory				
	Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material	Operating Temp.					
Opposite Counterbored Hole	LH2RW	LH2SW	LH2CW	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~ 80°C	Seal M Material Nitrile Rubber (-20~120°C)				
Standard Type	LHFRW-N No Seal	LHFSW-N No Seal	LHFCW-N No Seal					Low Temperature Black Chrome Plating	Stainless Steel (SUS)		-20~110°C			
	LHFRW	LHFSW	LHFCW								Electroless Nickel Plating	SUS440C Equivalent	Plastic (Duracon M90 Equivalent)	-20~ 80°C
	LHFRWF	LHFSWF	LHFCWF										Stainless Steel (SUS)	-20~110°C
	LHFRWR	LHFSWR	LHFCWR			Plastic (Duracon M90 Equivalent)	-20~ 80°C							
	LHFRWM	LHFSWM	LHFCWM			Stainless Steel (SUS)	-20~120°C							
	LHFRWMF	LHFSWMF	LHFCWMF											
	SLHFRW	SLHFSW	SLHFCW											
	SLHFRWS	SLHFSWS	SLHFCWS			SUS440C Equivalent	56HRC~	-			Plastic (Duracon M90 Equivalent)	-20~ 80°C		
											Stainless Steel (SUS)	-20~120°C		



dr		D Tolerance				L		H		T	d	d1	t	P.C.D.	W	F	A	Eccentricity	Rows of Balls	Perpendicularity	Basic Load Rating			Allowable Static Moment		Mass (g)		
Tolerance		To Surface Treatment		Surface Treatment		Tolerance															C (Dynamic)	N (Co)	C (Static)	N	Round Range	Square Range	Compact Range	
3	0 -0.010	7	0	0	19	19	3.5	2.5	4.5	2.1	13	15	-	13	0.010	4	0.010	0.015	138	210	0.51	8.7	7	7.7				
4		8	-0.011	-0.015	23	20	14	16	-	14	17	20	-	17					176	254	0.63	11	9	10				
5		10			28	25	17	20	-	17	20	22	-	20					263	412	1.38	24	20	21				
6		12	0	0	35	28	5	3.5	6	3.1	20	22	-	20					324	529	2.18	31	25	28				
8		15	-0.013	-0.018	45	32	24	25	-	24	29	30	-	29					431	784	4.31	51	43	47				
10		19			55	40	29	30	-	29	32	32	-	32					588	1100	7.24	98	78	90				
12		21	0	0	57	42	6	4.5	7.5	4.1	32	32	-	32					657	1200	10.9	110	90	102				
13		23	-0.016	-0.021	61	43	33	34	-	33	38	37	22	31					813	1570	11.6	130	108	123				
16		28			70	48	38	37	22	31	43	42	24	36	1230	2350	19.7	190	165	182								
20		0 -0.012	32	0	0	80	54	8	5.5	9	5.1	43	42	24	36	0.020	5	0.020	0.025	1400	2740	26.8	260	225	247			
25			40	-0.019	-0.025	112	62	60	58	32	40	67	64	38	55					1560	3140	43.4	540	500	525			
30			45			123	74	10	6.6	11	6.1	67	64	38	55					2490	5490	82.8	680	590	645			
35			52	0	0	135	82	13	9	14	8.1	78	75	45	64					2650	5270	110	1020	930	945			
40		-0.015	60	0		151	96				98	75	45	64	0.025	6	0.025		3430	8040	147	1570	1380	1423				
50			80	-0.022	-0.030	192	116												6080	15900	397	3600	3400	3437				

 For Precautions for Use, see  **P303**.
  Select Height-adjusting Spacers for Flanged Bushings from  **P330**.
 No seal for dr=3 · 4, LHFRW-N · LHFSW-N · LHFCW-N.
 Reversed counterbored type can be bolted from the reverse side.

$$\text{kgf} = \text{N} \times 0.101972$$
[illegible]

LHFCW-N12

 **LHFCWR10** (Low Temperature Black Chrome Plating)
 LHFCWR10L (L Type Greased)

For Features of Low Temperature Black Chrome Plating, see **P.304**.
Alternative grease types available.

For Days to Ship, Price and Performance, see **P.304**.